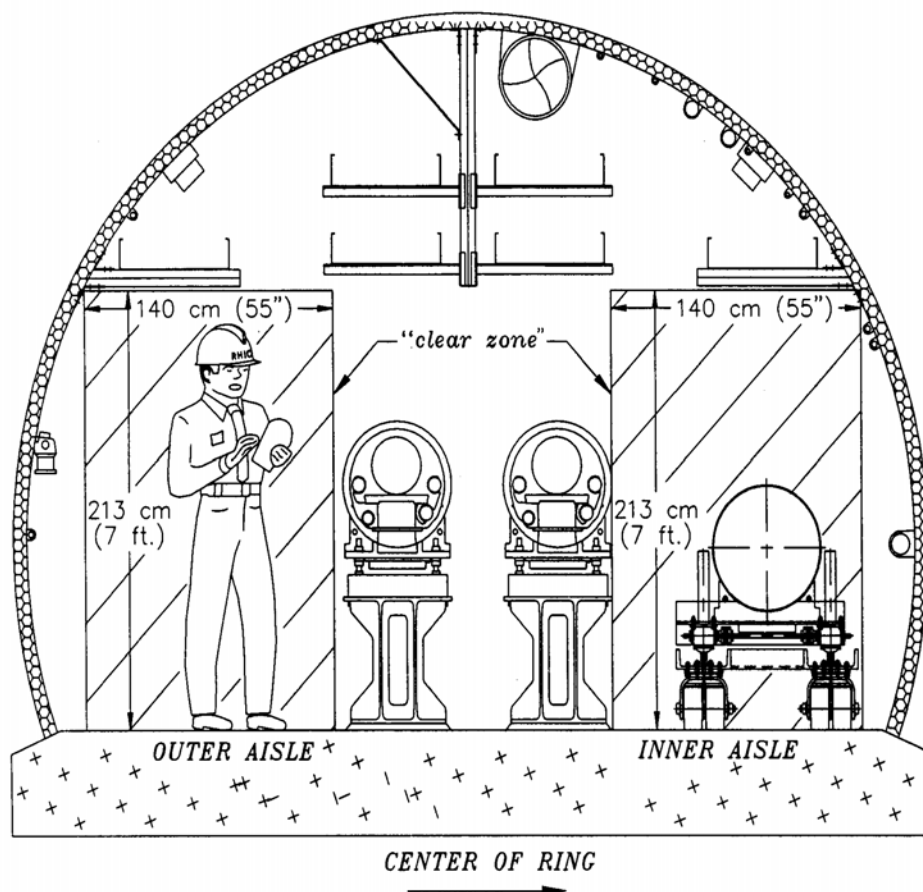


### iii. Tunnel Equipment Clear Zones

The tunnel cross section in Fig. 0-7 shows the two "clear zones" that were established by the Collider Ring Division in early 1992. The 1.4 m (55 in.) wide by 2.13 m (7 ft) high "clear zone" is to be kept open in the inner aisle, even during construction and installation of RHIC equipment. The outer aisle may have large, temporary equipment (welders, pump stations, etc.) blocking it during installation or repair steps. Equipment causing temporary blockage of inner aisle space should be on wheels and be able to be placed under magnets, or otherwise moved out of the clear zones, to allow the passage of personnel, electric carts, and other equipment. Since any protrusion into the "clear zone" can impede the progress of a repair, maintenance, or magnet replacement, both aisle "clear zones" must remain free of permanent structures now that RHIC is completed. In some cases, certain equipment may reside in the "clear zone" of the aisles during RHIC operation. This equipment must be designed and constructed to allow its removal within an eight (8) hour shift.



**Fig. 0-7.** Tunnel cross section clear zones.